AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A method of performing admission control for ~~of~~ traffic flows that encompass two or more service classes in a network, comprising:

determining for each service class a first effective envelope associated with arriving traffic entering said network, where the first effective envelope is a function over a time interval that defines an upper bound on aggregate arriving traffic from a given service class;

determining for each service class a second effective envelope associated with admitted traffic currently in said network, where the second effective envelope is a function over a time interval that defines an upper bound on admitted traffic from a given service class;

determining for each service class a service curve by measuring departing traffic leaving said network;

testing an admission control condition for each of the service classes, where the admission control condition is satisfied when the sum of the first and second effective envelopes for a given service class is less than or equal to the service curve for the given service class; and

admitting said arriving traffic when the admission control condition is satisfied for each of the service classes ~~if the sum of the first and second effective~~

~~envelopes is less than or equal to said service curve wherein said first and second effective envelopes and said service curve are non-constant functions of a time interval variable~~.

2. (previously presented) The method of claim 1 wherein said first and second effective envelopes are global effective envelopes.

3. (previously presented) The method of claim 1 wherein said second effective envelope is a global effective envelope determined as a function of [[the]] measured average and variance of [[the]] an aggregate of admitted traffic.

4. (previously presented) The method of claim 1 wherein said first and second effective envelopes are local effective envelopes.

5. (previously presented) The method of claim 1 wherein said second effective envelope is a local effective envelope determined as a function of measured average and variance of an aggregate of admitted traffic.

6. (previously presented) The method of claim 1 wherein said first effective envelope is based on an aggregate of arriving traffic.

7. (previously presented) The method of claim 6 wherein said aggregate is determined by measuring an aggregate arrival flow at plural time intervals and by calculating average and variance of said aggregate arrival flow.

8. (previously presented) The method of claim 1 wherein said second effective envelope is recursively calculated.

9. (original) The method of claim 1 wherein said service curve is determined based on measured packet delay.

10. (previously presented) The method of claim 1 wherein said service curve is determined by developing a list of pairs representing the amount of time required to service one packet of information and the number of backlogged packets of information, and using said list to determine a bounded service envelope.

11-16. (cancelled)